

APPLICANTS: Stamler

SERIAL NUMBER: 10/538,404

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Withdrawn) A method for preparing a stable iron nitrosylated hemoglobin which is converted to S-nitrosylated hemoglobin in the body, comprising the step of reacting deoxygenated hemoglobin and inorganic nitrite at mole ratios of nitrite to deoxygenated hemoglobin ranging from 1: 10 to 1: 1000 to form iron nitrosyl hemoglobin.
2. (Withdrawn) A method of blood product transfusion into a human patient in need of blood product transfusion, comprising the steps of co-incubating inorganic nitrite and blood substitute or red blood cells, comprising deoxygenated hemoglobin, at an initial mole ratio of nitrite to deoxygenated hemoglobin ranging from 1:10 to 1:1000 to form blood substitute or red blood cells product, containing iron nitrosyl hemoglobin, and transfusing the product containing iron nitrosyl hemoglobin into the patient.
3. (Currently Amended) A method of blood product transfusion into a human patient in need of a blood product transfusion, comprising the steps of ~~co-infusing co-administering a hemoglobin containing~~ blood substitute ~~or red blood cells~~ and inorganic nitrite into the patient ~~via infusion, wherein the inorganic nitrite being is infused at the a rate of 0.01 to 10 micromoles per minute, and the hemoglobin containing blood substitute is infused at a rate of 1 to 1000 cubic centimeters per hour.~~
4. (Withdrawn) A method of providing composition for transfusion for use at a later time, comprising storing composition comprising blood, blood substitute, red blood cells, blood hemoglobin or combination of two or more thereof in admixture with nitric oxide or after inorganic nitrite pretreatment, to preserve function and any red blood cells.
5. (Withdrawn) Stored blood, stored blood substitute, stored red blood cells, stored blood hemoglobin or combination of two or more thereof in admixture with nitric oxide or after inorganic nitrite pretreatment, for use at a later time.

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6. (Withdrawn) A method of treating a patient in need of nitric oxide therapy, comprising administering to the patient red blood cells or blood hemoglobin based therapeutic obtained by incubating red blood cells or blood hemoglobin, comprising deoxygenated hemoglobin, with inorganic nitrite, the mole ratio of nitrite to deoxygenated hemoglobin ranging from 1:10 to 1:1000 whereby the therapeutic contains iron nitrosyl hemoglobin.
7. (New) The method of claim 3, wherein said patient is a patient who:
 - a) has lost or is losing blood;
 - b) is in need of removal of waste products of the body;
 - c) is in need of removal of a toxic substance; or
 - d) is in need of hemoglobin to treat a disease of impairment of nitric oxide or oxygen.
8. (New) The method of claim 7, wherein said disease of impairment of nitric oxide or oxygen is angina or stroke.
9. (New) The method of claim 3, wherein said inorganic nitrite is sodium nitrite or potassium nitrite.
10. (New) The method of claim 3, wherein said inorganic nitrite is in the form of an aqueous solution.
11. (New) The method of claim 10, wherein said aqueous solution is saline or phosphate buffered saline.
12. (New) The method of claim 10, wherein said aqueous solution comprises inorganic nitrite at 1 μM to 1 mM.